

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
Takashi GOTO et al. : Attn: BOX PCT
Serial No. NEW : Docket No. 2000-0578A
Filed May 4, 2000 :

HEPARIN COFACTOR II PREPARATION AND
PROCESS THEREFOR
[Corresponding to PCT/JP98/04939
Filed October 30, 1998]

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of (X) the references listed on the attached Form PTO-1449 and/or () the additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for each reference previously cited by or submitted to the Patent Office in International No. PCT/JP98/04939.

1. This Information Disclosure Statement is submitted:
 - a. ☐ within 3 months of the filing date of the above-identified application, or
☒ within 3 months of entry into National stage prosecution of an International application, or ☐ before the mailing date of the first Office Action on the merits, and thus:

☒ no certification and/or fee is required.
 - b. ☐ after the events of above paragraph 1a and prior to the mailing date of a final Office Action or Notice of Allowance, and thus:

☐ the certification of paragraph 2 below is provided,
or

- ☐ a fee of \$240.00 is enclosed.
- c. ☐ after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus:
 - ☐ the certification of paragraph 2 below is provided,
and
 - ☐ a Petition and fee of \$130.00 are enclosed.

2. It is hereby certified

- ☐ that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
- ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following additional information (including any co-pending or abandoned U.S. application, prior uses and/or sales, etc.) is requested:

4. ☐ For each non-English language reference listed on the attached Form PTO-1449:

- ☐ reference is made to an English language translation submitted herewith, and/or
- ☐ reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or
- ☐ reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or
- ☐ reference is made to the concise explanation contained in the specification of the present application at page(s) , and/or
- ☐ reference is made to the concise explanation set forth below:

5. ☐ Applicant also offers the following comments for the Examiner's consideration:

 The cited references are those from the International Search Report, submitted herewith (Attachment). It is believed that WIPO has provided copies of these references to the PTO.

6. ☒ Also enclosed is a copy of the International Search Report citing these references, Written Opinion with English translation and Applicants' Response with English translation.

Respectfully submitted,

Takashi GOTO et al.

By Warren M. Cheek, Jr.
Warren M. Cheek, Jr.
Registration No. 33,367
Attorney for Applicants

WMC/dlk
Washington, D.C.
Telephone (202) 721-8200
Facsimile (202) 721-8250
May 4, 2000

FORM PTO 1449 (modified)

ATTY DOCKET NO.
2000-0578ASERIAL NO.
NEWU.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)APPLICANT
Takashi GOTO et al.

422 Rec'd PCT/PTO 04 MAY 2000

Date Submitted to PTO: May 4, 2000

FILING DATE
May 4, 2000

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,219,995	6/93				
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AJ	2-167232	6/90	JP				
	AK	3-128398	5/91	JP				
	AL	416983	3/91	EP				
	AM	496725	7/92	EP				
	AN	9-286797	11/97	JP				

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	P. Toulon et al., "Purification of heparin cofactor II from human plasma" J. Chromatogr., 1991, Vol. 539, No. 2, pp. 493-500, refer to abstract, Purification of HCII, Table I.
	AP	E. Petzelbauer et al., "Modulation of heparin cofactor II activity by glycosaminoglycans and adhesive glycoproteins", Thromb. Res., 1992, Vol. 66, pp. 559-567, refer to abstract, materials and methods, Fig. 1.
	AQ	R. Yamagishi et al., "Purification and biological property of heparin cofactor II: activation of heparin cofactor II: activation of heparin cofactor II and antithrombin III by dextran sulfate and various glycosaminolycans", Thromb. Res., 1984, Vol. 36, pp. 633-642, materials and methods (Purification of HCII), refer to Table 1.

EXAMINER

DATE CONSIDERED